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Ophthalmic Literature

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CONTENTS.

Glaucoma Literature..... 49
Book Notices..... 50
Index of Ophthalmology..... 52
Experimental Trachoma..... 64
Pathogenesis of Glaucoma... 64
Retinal Periphlebitis..... 64

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Ophthalmic Literature

VOL. III. APRIL, 1913. NO. 4.

Edited by EDWARD JACKSON. Assisted by WILLIAM H. CRISP.

GLAUCOMA LITERATURE.

It is a striking fact that the number of papers on glaucoma appearing in ophthalmic journals during the last few months is greater than the number relating to any other pathologic condition. A glance at the Index of Ophthalmology in the last few numbers shows that the glaucoma literature rivals in extent that referring to all diseases of the crystalline lens, or of the cornea and sclera.

Equally significant evidence of widespread interest in the subject is found in the extent to which these papers are quoted, and here, too, glaucoma takes a leading place with one of the largest lists of repeated titles. Then, too, it appears on the program of almost every ophthalmological society, and the discussions on papers relating to glaucoma are among the largest and most animated. Finally the claims made of priority or originality in regard to minor suggestions as to technique, etc., show the sense of importance with which everything relating to glaucoma is regarded and the excited state of feeling that goes with a strong interest.

Glaucoma is not a more serious disease than it has always been. It probably is not more common. The gravity of the suffering and blindness it causes, the suddenness with which the blow may fall, the irreparable damage it may do in a very few days, and the impossibility of restoring sight insidiously lost have always given it a certain dramatic interest. But the interest in it has recently received a new impetus in two quite different directions.

The tonometer of Schiötz has given exactness to clinical observations with regard to the central fact of glaucoma, intraocular tension. By the test of this new method of precision all that was previously known or alleged with regard to the clinical course of glaucoma must be reexamined and confirmed or rejected. By its findings we have to reassign the responsibility of different factors supposed to contribute to increase of the intraocular pressure. By its aid we must judge the validity of the claims made for each therapeutic measure new or old.

Furthermore, the tonometer begins to show striking changes in the intraocular tension in diseases not heretofore thought of in connection with glaucoma. So that these must be considered as to a possible relation with it. And then the more exact knowledge of the changes in tension of the eyeball renders possible a re-study of other pathological conditions that enter into glaucoma, so that a redivision or re-classification of its phenomena becomes possible or imperative.

But among practical men engaged in the treatment of glaucoma the greatest revival of interest attaches to the new operations that

have been devised to combat it. It is a safe prophecy that Maj. Elliot's book will be promptly bought and eagerly read. It comes at the psychological moment. Every ophthalmic surgeon has felt sorely the limitations of his therapeutic resources against glaucoma in the past, and turns with hope to what seems to be promising effort to extend them. In a sense Elliot is right in calling this the "glaucoma age," and many are willing to admit justification for his surmise, that iridectomy is to be supplanted by the newer operations. Trephining proposed in India is now being done in Japan, Australia and Peru, as well as North America. But, most remarkable, it excites equal interest in Germany, France and Great Britain. This already is certain: whatever the ultimate fate of the newer operations for glaucoma, the experience gained with them will leave our knowledge of this disease broadened, our control over it increased.

BOOK NOTICES.

Elliot, R. H. Madras. SCLERO-CORNEAL TREPHINING IN THE OPERATIVE TREATMENT OF GLAUCOMA. 8 vo. 135 pp. 33 ill. London, George Pulman and Sons, Ltd. Price, 7/6d. net.

This is, at present, a very live subject in ophthalmology, and every progressive ophthalmic surgeon will welcome Elliot's latest views upon it. The scope of the book is revealed by the chapter headings: Indications for Sclero-corneal Trephining; Preparations for the Operation; Modifications of Operative Technique Suggested by Other Surgeons; Complications Which May Be Met With During the Operation; After Management of the Patients and Treatment of Complications. The Diagnosis of Glaucoma in Southern India; Method of Compiling Statistics, and the Results of Trephining as Judged of by Statistics of Returned Cases.

In addition to these chapters Elliot has included an historical chapter made up of papers by Stephenson on the Trephine in the Treatment of Glaucoma, and by Ballantyne on the Newer Operations for Glaucoma, and a final chapter by Temple Smith on the Site of Trephining for Glaucoma.

This gives the reader a comprehensive view of the practical advances recently made in the treatment of glaucoma. The operations of Querenghi, Bjerrum, Abadie, Herbert, Bettremieux and Verhoeff are all described. Cyclodialysis, the Lagrange operation and the trephining of Fergus receive careful attention. Elliot's criticisms on modifications of technique, that have been suggested by other surgeons, are fair and illuminating. Every part of the book is well written. The illustrations all assist in making clear the views expressed, and there is a good index. To a large and immediately interested circle of readers the book will be very welcome.

Stephenson, S., London. EYE-STRAIN IN EVERY-DAY PRACTICE. London: The Ophthalmoscope Press. 139 pages. Price, 3/6d. net.

In spite of fifty years of development in practical refraction, it is doubtful whether any very large proportion of medical practitioners have even a moderately clear understanding of the amount of inconvenience, discomfort and positive harm that is wrought by refractive errors. This little volume consists of addresses and essays which were mostly given before general medical gatherings or published in general medical journals. Its language is clear and not too technical. While not taking an extreme position, the author is "more and more convinced of the influence of eye-strain in producing general reflex neuroses."

The scope of the volume is indicated by the fact that, of seven chapters, one deals with ocular headaches, one with some unusual forms of migraine in children, one with the relation between habit spasm and eye-strain, and one with cases of eye-strain simulating grave organic disease of the central nervous system. The various chapters are made more interesting by brief descriptions of well-chosen illustrative cases. Frequent reference is made to the early history of the subject, as associated with the writings of Weir Mitchell, Hughlings Jackson, Thomson and others. W. H. C.

Wilbrand, H., and Saenger, A. Hamburg. DIE NEUROLOGIE DES AUGES. Fünfter Band. DIE ERKRANKUNGEN DES OPTICUSSTAMMES. 8 vo. 676 pages. 198 ill. Wiesbaden: J. F. Bergmann.

After almost 400 pages devoted to diseases of the optic nerve head (O. L., ii, p. 83), the pages here given to diseases of the trunk of the optic nerve, complete a very exhaustive study of the subject. The number of illustrations scarcely does justice to the work, since numbered as single illustrations are ten insert plates, each including several different figures. The bibliography includes references to 1,628 papers bearing on the subject, but only a few of these refer to papers published in the last four years.

In the classification of inflammatory affections Wilbrand and Saenger recognize three fundamental forms: Axial neuritis, which may be acute, chronic or hereditary; perineuritis, including peripheric interstitial neuritis, and total transverse neuritis. Under these headings and that of optic atrophy, are considered the toxic conditions, commonly alluded to as amblyopias. The general character of this work is now so well established that comments on its thoroughness and the breadth of research shown are unnecessary.

Lewin, L., Berlin, and **Guillery, H.,** Cöln. DIE WIRKUNGEN VON ARZNEIMITTELN UND GIFTEN AUF DES AUGE. Second edition. 8 vo. Two volumes. 1,685 pages. 67 ill. Berlin: A. Hirschwald. Price, 38 M.

This work considers a very large collection of clinical and laboratory observations, from the point of view that the action of medicines and poisons, and diseases of internal causation, have the same root, namely, the reactions of chemical substances. The amount and variety of the observations considered from this standpoint may be gathered from some of the headings under which they are arranged.

The book starts with the substances that paralyze the nervous system, considering first the inhalation of narcotics from chloroform to oil of turpentine. Then come general sedatives and soporifics (fifty-two in number) of such varied character as opium and oil of eucalyptus. After these come the local anesthetics and the local mydriatics.

Substances that stimulate the nervous system are next considered, and substances which chemically or physically interfere with the changes in the living albumin complete the first volume. These latter include metallic poisons, acids, metabolic and blood poisons, and animal poisons, like those of caterpillars, wasps, spiders, etc.

In the second volume these are continued, with the germ poisons, the local irritants and caustics, and metals and alkaline earths. Then come the antipyretics, anthelmintics, drugs that affect the functions of the heart and kidneys and substances that have an indirect or mechanically injurious action upon the eyes.

The completeness with which a large part of ophthalmic pathology has been reviewed from this standpoint may be judged by the forty pages given to poisoning by the influenza bacillus. The ocular complications of influenza are considered, as they affect each structure of the eye. Retrobulbar neuritis with influenza has two pages,

glaucoma almost as much, and the central disturbances include impaired color vision, scintillating scotoma and hemianopsia. The collection and the arrangement of literature from this viewpoint seems thorough. A general index of over sixty pages renders the collected material readily accessible for reference.

The new edition brings together the recorded observations of the last seven years, which the authors have a right to assume is the greater and more important for the stimulus given by the original publication of their work.

Adam, C., Berlin. OPHTHALMOSKOPISCHE DIAGNOSTIK AN DER HAND TYPISCHER AUGENHINTERGRUNDSBILDER. Roy. 8 vo. 233 pages. 48 plates, with 86 colored pictures and 18 illustrations in the text. Berlin and Vienna: Urban and Schwartzenberg.

This work on ophthalmoscopic diagnosis has been compiled with special reference to those conditions that are most important in general medicine, to meet the need of physicians and students. To some extent the text is arranged like a quiz compend, with answers to questions—a method well calculated to fix attention on important points. The schematic representation of different conditions of the choroidal vessels in Plate 30 is particularly helpful in clearing up the natural confusion and uncertainty on the part of the student.

Lang's GERMAN-ENGLISH DICTIONARY. Second Edition. Edited and revised by M. K. Meyers. 8 vo. 572 pages. Philadelphia: P. Blakiston's Son and Co. Price, $5.00.

This book is wholly addressed to the English reader of German. It defines in English, German terms used in medicine and the allied sciences. The ophthalmologist reading in German soon learns to recognize words that pertain strictly to ophthalmology. The mass of them are of classical derivation, or are common to most European languages. One is more likely to be puzzled by German words pertaining to general medicine or the related sciences which are not to be found in the ordinary German-English dictionary. Of these almost 50,000 are here defined, an increase of nearly 10 per cent over the number in the preceding edition. The collection is especially rich in the compound words, which often prove troublesome to the reader not very familiar with the German language.

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Betti, L. Pulse Oscillations of the Ocular Tension. (4 ill.) Ann. di Ott., xli, p. 845.

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Zieminski. Oily Collyria. Postep. Okul., 1912, No. 12.

Repeated Titles. **Abadie** (iii, p. 3) Ophthalmoscope, xi, p. 255. **Bistis** (ii, p. 132) Ophthalmology, ix, p. 439. **Fusita** (iii, p. 20) Ibid., p. 411. **Horovitz** (iii, p. 3) Ibid., p. 410. **Montagne** (iii, p. 3) Ibid., p. 413. **Santos-Fernandez** (ii, p. 183) Ophthalmoscope, xi, p. 255. **Vogt** (ii, p. 164) O. L., iii, p. 47.

OPERATIONS.

Frisch, F. New Iris Scissors. (1 ill.) Jour. A. M. A., lx, p. 1226.

Magitot, A., and Landrieu, M. Simplification of Operation of Krönlein. (5 ill.) Ophthalmology, ix, p. 321.

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Granger, G. B. Refraction of 13,030 Cases. Jour.-Lancet, xxxiii, p. 233.

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Landolt, E. Work of Gullstrand in Catoptrics. (6 ill.) Arch. d'Opht., xxxii, p. 129.

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Repeated Titles. **Attias** (iii, p. 4) Ophthalmology, ix, p. 426. **Hand-**

mann (iii, p. 4) Ibid., p. 417. **Jess** (ii, p. 183) Ibid., p. 419. **Olof** (ii, p. 85) Ibid., p. 430. **Perred** (ii, p. 36) O. L., iii, p. 46. **Schönebeck** (ii, p. 64) Klin. M. f. Augenh., March, p. 392. **Von Rohr and Stock** (ii, p. 164) O. L., iii, p. 47. **Wolff** (ii, p. 133) Ophthalmology, ix, p. 431.

OCULAR MOVEMENTS.

Astruc. Partial Myotomy for Strabismus. (5 ill.) Clin. Opht., xix, p. 134.

Bechtereff, V. V. Progressing Relapsing Paralysis of Oculo-motor Nerve. J. Nevropat. i. psikhiat, Korsahova Mosk., xii, p. 353.

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Repeated Titles. **Antonelli** (ii, p. 147) Ophthalmoscope, xi, p. 255. **Dransart** (iii, p. 21) Ophthalmology, ix, p. 416. **Elschnig** (iii, p. 4) New York Med. Jour., March 29, p. 671. **Gits** (iii, p. 4) Ophthalmology, ix, p. 420. **Landolt** (iii, p. 21) Ibid., p. 431. **Lange** (iii, p. 5) Ibid., p. 416. **Lundsgaard** (iii, p. 5) Ibid., p. 419. **Ohm** (ii, p. 117) O. L., iii, p. 46. **Pichler** (ii, p. 104) Ibid., p. 47.

CONJUNCTIVA.

Arbolada. Calcareous Conjunctivitis. An. de Oft., xv, p. 321.

Bailliart, P. Granular Conjunctivitis. Bull. Gén. de Thérap., clxiv, p. 622.

Boynton, W. E. Acute Contagious Conjunctivitis. Clinique, xxxiii, p. 673.

Claiborne, J. H. Gonorrheal Conjunctivitis Aborted by Two Per Cent. Nitrate of Silver. New York State Jour. Med., xiii, p. 212.

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Goulfier. Etiology of Phlyctenular Kerato-conjunctivitis. Paris Thesis.

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Knorr, E. A., and Maldeis, H. J. Etiology of Phlyctenular Conjunctivitis. Md. Med. Jour., lvi, p. 90.

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Metz, R. B. Vernal Conjunctivitis. Jour. Opht. and Oto-Laryngol., vii, p. 60.

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Uhthoff, W. Tuberculosis of Bulbar Conjunctiva and Cornea. Ibid., p. 368.

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Wawoulina. Bone Formations in Palpebral Conjunctiva. Wiestnik. Ophth., xxviii, p. 829.

Wibo. Carbon Dioxid Snow for Trachoma. Ann. d'Ocul., cxlix, p. 172.

Repeated Titles. Argañaraz (ii, p. 86) Amer. Jour. Ophth., xxx, p. 109. **Colombo** (iii, p. 5) Ophthalmology, ix, p. 439. **Credé-Hörder** (iii, p. 22) Ophthalmology, ix, p. 380. **Dorff** (iii, p. 5) Ibid., p. 424. **Ishihara** (ii, p. 165) Ibid., p. 379. **Junius** (ii, p. 184) Ibid., p. 440. **Komoto** (iii, p. 22) Ibid., p. 421. **Masuda** (ii, p. 165) Ibid., p. 386. **Meisner** (ii, p. 37) Ibid., p. 378. **Piccillo** (ii, p. 37) O. L., iii, p. 47. **Rulet and Van Duyse** (ii, p. 184) Ophthalmology, ix, p. 441. **Sakaguchi** (ii, p. 165) Ibid., p. 368. **Schnaudigel** (iii, p. 5) Ibid., p. 411. **Stern** (ii, p. 184) Ibid., p. 377. **Takashima** (iii, p. 6) Ibid., p. 424. **Von Marenholtz** (iii, p. 6) Ibid., p. 379. **Wakisaka** (iii, p. 22) Ibid., p. 368; 429.

CORNEA AND SCLERA.

Alger, E. M. Interstitial Keratitis. Post-Grad., xxviii, p. 250.

Attias. Nerves of Human Cornea. (Cont.) Arch. di Ott., xx, p. 480.

Augstein. Etiology and Therapy of Keratoconus. Klin. M. f. Augenh., March, p. 371.

Neutral Red in Treatment of Corneal Ulcers. Ibid., p. 376.

Brown, S. H. Accidental Tattooing of Cornea by Lead from Copying Pencil. Ophthalmology, ix, p. 367.

Calderaro. Action of Streptococcus on Eye, Especially with Regard to Keratitis of Harvesters. Clin. Ocul., xiii, p. 1209.

Fleischer, B. Anatomic Study of Keratoconus With Hemosiderosis. (1 ill., 2 pl.) Arch. f. Augenh., lxxiii, p. 242.

Frenkel. Serpent Ulcer With Iridocyclitis. L'Opht. Prov., x, p. 35.

Kalaschnikof, W. Treatment of Scleritis. Zeit. f. Augenh., xxix, p. 373.

Lamothe, E. A. Infectious Suppurative Keratitis. (Bibl.) Ophth. Rec., xxii, p. 117.

Lebègue, P. Mycelial Keratitis. Arch. d'Opht., xxxii, p. 185.

Lebensohn, M. H. Tubercular Keratitis. Chicago Ophth. Soc., Feb 13. Ophth. Rec., xxii, p. 187.

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Addario La Ferla, G. Experimental Trachoma in the Ape. (Annali di Ottalmologia, xli, p. 278.)

Inoculation of two lower apes (Macacus) was attempted in several ways. One was the insertion of a piece of conjunctiva from a case of severe trachoma into a pocket made in the cul-de-sac of the ape's eye. In other experiments trachomatous material was introduced into a similar pocket, and the eyelids sewn together for several days. Or scrapings from trachomatous conjunctiva were injected beneath the mucosa. To facilitate infection the ape's conjunctiva, and in another experiment the cornea, were previously scarified. But in every instance the reaction, though sometimes violent, was only temporary; and the clinical picture and histological changes in no way resembled those of trachoma.

Heerfordt, C. F. Pathogenesis of Hemostatic Glaucoma. (Graefe's Archiv. für Ophthalmologie, 83, p. 149.)

Histologic study of an eye in which hemostatic (inflammatory) glaucoma had developed probably five or six months before enucleation, showed in one of the principal branches of a vortical vein a valvular narrowing, due to altered position of the sinoscleral plate, and which completely shut off two-thirds of the entrance into the scleral canal. The main branch of another vortical vein was almost completely closed in a like cause. It is suggested that other workers have failed to find similar conditions because of the common practice of separating choroid from sclera in order to get the thinnest possible sections of the former. It is probably essential to cut the sinus and scleral canal in one block of tissue.

Igersheimer, J. Tuberculous Etiology of Retinal Periphlebitis of the Adolescent. (Graefe's Archiv. für Ophthalmologie, lxxxii, p. 214.)

Three new cases are described. In a patient of nineteen years, the right eye showed an extensive disturbance of the retinal veins, mainly peripheral, and consisting of numerous fine, and some larger, hemorrhages, in the retinal tissue. The other eye showed retinitis proliferans.

Tuberculous etiology was favored by the presence of tuberculosis in the patient's mother, a positive finding in the lungs of the patient, and pronounced tuberculin reactions. The second case was a typical one of recurrent juvenile vitreous hemorrhage, with changes in the retinal veins of the other eye. In the latter eye the old chorioretinitic foci were almost all situated along the vessels, and especially at their bifurcations. The lesions were almost entirely peripheral. The lungs were tuberculous and there was a marked reaction to tuberculin. In a case of greyish opacities over the retinal veins, a tuberculous etiology was doubtful.

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